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Tables of Contents

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- ☐ Conference Proceedings
- ☐ Standards

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- ☐ By Author
- ☐ Basic
- ☐ Advanced

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High isolation SAW antenna duplexer modules

[Kamogawa, N.](#) [Shiba, T.](#) [Ishizaki, T.](#) [Okajima, D.](#) [Hosaka, N.](#) [Moteki, M.](#) [Ogawa, S.](#)
[Oda, K.](#) [Hikitai, M.](#)

Hitachi Media Electron. Ltd, Yokohama;

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Abstract:

Optimized phase shifter conditions for SAW antenna duplexer modules at not ohm cases have been analytically provided to achieve desired isolation performances. In order to confirm the prediction, obtained optimum condior performed. In the EGSM/DCS dual band SAW antenna duplexer mo applied to two cases. In the EGSM/DCS dual band SAW antenna duplexer mo case, impedances of low noise amplifier connecting the Rx ports are not 50 ohm when the amplifier are off state at transmitter period. We propose a optimized phase shifter circuit for EGSM and DCS Rx output ports using the equation. In Japanese cdmaOne duplexer case, we also propose an optimized phase shifter circuit for the transmitter circuit between Rx band trap and transmitter top filter block. The predictions are verified by the experiments

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	<i>DB=EPAB,DWPI; PLUR=YES; OP=ADJ</i>	6	L18
L18	L17 and phase shift\$	86	L17
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L16	L15 and reflection coefficient	1909	L15
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L14	(surface acoustic wave or surface wave or elastic surface wave or acoustic wave or saw or surface elastic wave or elastic wave)		
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L13	l10 and reflection coefficient	19	L12
L12	l10 and impedance	5	L11
L11	L10 and phase shift\$	494	L10
L10	L9 and (duplex\$ or branching or (transmi\$ and (receiv\$ or recept\$)))	20405	L9
L9	(surface acoustic wave or surface wave or elastic surface wave or acoustic wave or saw or surface elastic wave or elastic wave)		
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>	34	L8
L8	L7 and (333/\$.ccls. or 310/\$.ccls. or 29/\$.ccls. or 455/\$.ccls.)	181	L7
L7	l2 and phase shift\$ and reflection coefficient	11	L6
L6	l2 and (phase shift\$ with reflection coefficient)	0	L5
L5	l2 and (phase shift\$ withe reflection coefficient)	496	L4
L4	l2 and reflection coefficient		
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L2	(((((surface acoustic wave or surface wave or elastic surface wave or acoustic wave or saw or surface elastic wave or elastic wave)) and (transmit\$ or transmission) and (receiv\$ or reception))	19231	L2
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